

Notice of Allowability

Application No.

09/100,189

Examiner

Qi Han

Applicant(s)

NUNBERG ET AL.

Art Unit

2654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 02/10/2005.
2. ☒ The allowed claim(s) is/are 1,3-19 and 21-27.
3. ☒ The drawings filed on 18 June 1998 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/10/2005 has been entered.

Response to Amendment

2. The Applicant(s) amended claims 1, 19, 26 and 27 (see amendment: pages 2-7), and filed the RCE examination request, on 02/10/2005.

Allowable Subject Matter

3. Claims 1, 3-19 and 21-27 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent **claims 1 and 26**, the instant application is directed to a method and manufacture article of identifying a document type of a document in machine-readable form without structurally analyzing the document text. Each independent claim, combining certain well known features in the art, identifies the uniquely distinct features of: selecting a first set of nonstructural surface cues (interpreted as cues or features obtained from a text but without analyzing a grammar (or sentence) structure of the text); generating a cue vector from the text,

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the cue vector having a value for each of the selected cues and representing a frequency of occurrences in the text of the first set of nonstructural surface cues; associating a weighting vector with a first text genre (wherein text genre is defined as any widely recognized class of texts defined by some common communicative purpose or other functional traits, and applies only to sentential genres that communicate primarily via sentences and sentence like strings that make use of the full repertory of text-category indicators, see specification, page 11, last paragraph); and determining whether the text is an instance of the first text genre using the cue vector and the weighting vector associated with the first text genre, wherein the first set of cues includes a punctuational cue.

Regarding independent **claims 19 and 27**, the instant application is directed to a method and manufacture article of identifying a document type of a document in machine-readable form without structurally analyzing the document text. Each independent claim, combining certain well known features in the art, identifies the uniquely distinct features of: selecting a first set of nonstructural surface cues (interpreted as cues or features obtained from a text but without analyzing a grammar (or sentence) structure of the text); generating a cue vector from the text, the cue vector having a value for each of the selected cues and representing a frequency of occurrences in the text of the first set of nonstructural surface cues; determining a relevancy to the text of each facet (wherein facet is defined as an association of a characteristic set of computable linguistic properties (cues or features) and is observable from the formal surface level features of texts, see specification, page 12, paragraph 2 and Fig. 2) of a second set of facets using the cue vector and a weighting vector; and identifying from a third set of document

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types a document type of the text based upon those facets of the second set that are relevant to the text.

4. The prior art of record, Martino et al. (US 5,913,185) and Biber (“the Multi-Dimensional Approach to linguistic Analysis of Genre Variation: An overview of methodology and findings”, computers and the Humanities, vol. 26, pages 331-345, 1993), provided numerous teachings of identifying natural language (also apply to genres), detecting language shift point, measuring particular word frequency, observing changes in the text, including observation of punctuation, capitalization, font change, providing multi-dimensional approach to linguistic analysis of genre variation, and using statistical tools like mean and standard deviation. However, the combined features as stated above, are not anticipated by, nor made obvious over the prior art of the record.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

6. Please address mail to be delivered by the United States Postal Service (USPS) as follows:

Mail Stop ____
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

or faxed to: 571-273-8300, (for formal communications intended for entry)

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Or: 571-273-8300, (for informal or draft communications, and please label "PROPOSED" or "DRAFT")

If no Mail Stop is indicated below, the line beginning Mail Stop should be omitted from the address.

Effective January 14, 2005, except correspondence for Maintenance Fee payments, Deposit Account Replenishments (see 1.25(c)(4)), and Licensing and Review (see 37 CFR 5.1(c) and 5.2(c)), please address correspondence to be delivered by other delivery services (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolator, etc.) as follows:

U.S. Patent and Trademark Office
Customer Window, Mail Stop _____
Randolph Building
Alexandria , VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qi Han whose telephone numbers is (571) 272-7604. The examiner can normally be reached on Monday through Thursday from 9:00 a.m. to 7:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richmond Dorvil, can be reached on (571) 272-7602.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Inquiries regarding the status of submissions relating to an application or questions on the Private PAIR system should be directed to the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028 between the hours of 6 a.m. and midnight Monday through Friday EST, or by e-mail at: ebc@uspto.gov. For general information about the PAIR system, see <http://pair-direct.uspto.gov>.

QH/qh
June 24, 2005



DAVID D. KNEPPER
PRIMARY EXAMINER